



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Samuel J. Shuster et al. Art Unit : 1635
Serial No. : 10/537,741 Examiner : Unknown
Filed : April 24, 2006 Conf. No. : 3556
Title : METHODS AND MATERIALS FOR MODULATING TRPM2

Mail Stop Amendment

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

TRANSMITTAL

The following correspondence relating to this application is enclosed for filing:

1. Information Disclosure Statement (1 page);
2. Form PTO-1449 (4 pages);
3. Copies of cited references (33 references); and
4. A return postcard.

Please date stamp and return the enclosed postcard. Please apply any charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date:

November 21, 2006

M. Angela Parsons

M. Angela Parsons, Ph.D.
Reg. No. 44,282

Fish & Richardson P.C.
60 South Sixth Street, Suite 3300
Minneapolis, MN 55402
(612) 335-5070 telephone
(612) 288-9696 facsimile

60392242.doc

CERTIFICATE OF MAILING BY FIRST CLASS MAIL

I hereby certify under 37 CFR §1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

November 21, 2006

Date of Deposit

Signature

Lisa M. Becker

Lisa M. Becker

Typed or Printed Name of Person Signing Certificate



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Samuel J. Shuster et al. Art Unit : 1635
Serial No. : 10/537,741 Examiner : Unknown
Filed : April 24, 2006 Conf. No. : 3556
Title : METHODS AND MATERIALS FOR MODULATING TRPM2

MAIL STOP AMENDMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Applicants request consideration of the references listed on the attached PTO-1449 form. Under 37 C.F.R. §1.98(a)(2)(ii), only copies of foreign patent documents and/or non-patent literature are enclosed. Copies of any listed U.S. patents or U.S. patent application publications can be provided upon request.

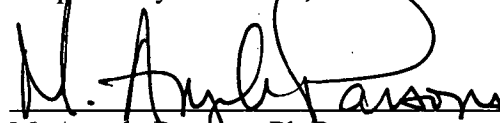
This statement is being filed before the receipt of a first Office Action on the merits. Please apply any charges or credits to Deposit Account No. 06-1050.

Date:

November 21, 2006

Fish & Richardson P.C.
60 South Sixth Street, Suite 3300
Minneapolis, MN 55402
Telephone: (612) 335-5070
Facsimile: (612) 288-9696
60391087.doc

Respectfully submitted,



M. Angela Parsons, Ph.D.
Reg. No. 44,282

CERTIFICATE OF MAILING BY FIRST CLASS MAIL

I hereby certify under 37 CFR §1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

November 21, 2006

Date of Deposit

Signature



Lisa M. Becker

Typed or Printed Name of Person Signing Certificate



Substitute Form PTO-1449 (Modified) Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 14848-010US1	Application No. 10/537,741
	Applicant Samuel J. Shuster et al.		
	Filing Date April 24, 2006	Group Art Unit 1635	

U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA	3,687,808	08/29/72	Merigan, Jr. et al.			
	AB	4,469,863	09/04/84	Ts'o et al.			
	AC	4,736,866	04/12/88	Leder et al.			
	AD	4,981,957	01/01/91	Lebleu et al.			
	AE	5,214,136	05/25/93	Lin et al.			
	AF	5,218,105	06/08/93	Cook et al.			
	AG	5,223,409	06/29/93	Ladner et al.			
	AH	5,235,033	08/10/93	Summerton et al.			
	AI	5,254,678	10/19/93	Haseloff et al.			
	AJ	5,359,044	10/25/94	Cook et al.			
	AK	5,489,677	02/06/96	Sanghvi et al.			
	AL	5,496,698	03/05/96	Draper et al.			
	AM	5,525,468	06/11/96	McSwiggen			
	AN	5,539,082	07/23/96	Nielsen et al.			
	AO	5,545,729	08/13/96	Goodchild et al.			
	AP	5,596,086	01/21/97	Matteucci et al.			
	AQ	5,602,240	02/11/97	De Mesmaeker et al.			
	AR	5,614,617	03/25/97	Cook et al.			
	AS	5,616,459	04/01/97	Kramer et al.			
	AT	5,631,115	05/20/97	Ohtsuka et al.			
	AU	5,631,359	05/20/97	Chowrira et al.			
	AV	5,646,020	07/08/97	Swiggen et al.			
	AW	5,650,502	07/22/97	Goodchild et al.			
	AX	5,652,094	07/29/97	Usman et al.			
	AY	5,672,511	09/30/97	Beigelman et al.			
	AZ	5,750,666	05/12/98	Caruthers et al.			
	AAA	5,767,263	06/16/98	Usman et al.			
	ABB	5,837,855	11/17/98	Chowrira et al.			

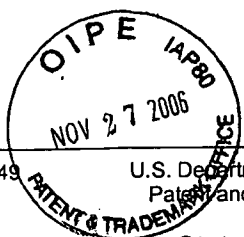
Examiner Signature

Date Considered

EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute Disclosure Form (PTO-1449)

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /K.C./



Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 14848-010US1	Application No. 10/537,741
		Applicant Samuel J. Shuster et al.	
		Filing Date April 24, 2006	Group Art Unit 1635

Information Disclosure Statement
by Applicant
(Use several sheets if necessary)

(37 CFR §1.98(b))

U.S. Patent Documents

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	ACC	5,874,414	02/23/99	Haseloff et al.			
	ADD	5,879,938	03/09/99	Usman et al.			
	AEE	5,891,684	04/06/99	Usman et al.			
	AFF	5,908,779	06/01/99	Carmichael et al.			
	AGG	5,942,395	08/24/99	Fournier et al.			
	AHH	5,994,124	11/30/99	Bozzoni			
	AII	6,015,794	01/18/00	Haseloff et al.			
	AJJ	6,022,962	02/08/00	Chowrira et al.			
	AKK	6,096,715	08/01/00	Rossi et al.			
	ALL	6,140,491	10/31/00	Usman et al.			
	AMM	6,156,192	12/05/00	Rummler			
	ANN	6,204,027	03/20/01	Goodchild			
	AOO	6,265,167	07/24/01	Carmichael et al.			
	APP	6,271,436	08/07/01	Piedrahita et al.			
	AQQ	6,307,041	10/23/01	Ruffner et al.			
	ARR	2002/0081658	06/27/02	Curtis			

Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	ASS	PCT/SE01/02 US4	Unknown	WIPO				

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
	ATT	Bennett, "Animal Models of Pain," <u>Methods in Pain Research</u> , 2001, Kruger (ed.), pp. 67-91
	AUU	Bilsky et al., "Characterization of Antinociception to Opioid Receptor Selective Agonists after Antisense Oligodeoxynucleotide-Mediated "Knock-Down" of Opioid Receptors <i>in Vivo</i> ," <u>J. Pharmacol. Exp. Ther.</u> , 1996, 277:491-501
	AVV	Bilsky et al., "Selective blockade of peripheral delta opioid agonist induced antinociception by intrathecal administration of delta receptor antisense oligodeoxynucleotide," <u>Neurosci. Lett.</u> , 1996, 220:155-158

Examiner Signature	Date Considered
--------------------	-----------------

EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /K.C./

Substitute Form PTO-1449 (Modified) U.S. Department of Commerce Patent and Trademark Office Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))	Attorney's Docket No. 14848-010US1	Application No. 10/537,741
	Applicant Samuel J. Shuster et al.	
	Filing Date April 24, 2006	Group Art Unit 1635

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
	AWW	Carell et al., "A Solution-Phase Screening Procedure for the Isolation of Active Compounds from a Library of Molecules," <u>Angew. Chem. Int. Ed. Engl.</u> , 1994, 33(20):2061-2064
	AXX	Carell et al., "A Novel Procedure for the Synthesis of Libraries Containing Small Organic Molecules," <u>Angew. Chem. Int. Ed. Engl.</u> , 1994, 33:2059-2061
	AYY	Chaplan et al., "Quantitative assessment of tactile allodynia in the rat paw," <u>J. Neurosci. Meth.</u> , 1994, 53:55-63
	AZZ	Cho et al., "An Unnatural Biopolymer," <u>Science</u> , 1993, 261:1303-1305
	AAAA	Cull et al., "Screening for receptor ligands using large libraries of peptides linked to the C terminus of the <i>lac</i> repressor," <u>Proc. Natl. Acad. Sci. USA</u> , 1992, 89:1865-1869
	ABBB	Cwirla et al., "Peptides on phage: A vast library of peptides for identifying ligands," <u>Proc. Natl. Acad. Sci. USA</u> , 1990, 87:6378-6382
	ACCC	Devlin et al., "Random Peptide Libraries: A Source of Specific Protein Binding Molecules," <u>Science</u> , 1990, 249:404-406
	ADDD	DeWitt et al., "'Diversomers': An approach to nonpeptide, nonoligomeric chemical diversity," <u>Proc. Natl. Acad. Sci. USA</u> , 1993, 90:6909-6913
	AEEE	Erb et al., "Recursive deconvolution of combinatorial chemical libraries," <u>Proc. Natl. Acad. Sci. USA</u> , 1994, 91:11422-11426
	AFFF	Felici et al., "Selection of Antibody Ligands from a Large Library of Oligopeptides Expressed on a Multivalent Exposition Vector," <u>J. Mol. Biol.</u> , 1991, 222:301-310
	AGGG	Fodor et al., "Multiplexed biochemical assays with biological chips," <u>Nature</u> , 1993, 364:555-556
	AHHH	Gallop et al., "Applications of Combinatorial Technologies to Drug Discovery. 1. Background and Peptide Combinatorial Libraries," <u>J. Med. Chem.</u> , 1994, 37(9):1233-1251
	AIII	Hargreaves et al., "A new and sensitive method for measuring thermal nociception in cutaneous hyperalgesia," <u>Pain</u> , 1988, 32:77-88
	AJJJ	Harteneck et al., "From worm to man: three subfamilies of TRP channels," <u>Trends Neurosci.</u> , 2000, 23:159-166
	AKKK	Houghten et al., "The Use of Synthetic Peptide Combinatorial Libraries for the Identification of Bioactive Peptides," <u>Biotechniques</u> , 1992, 13(3):412-421
	ALLL	Hylden et al., "Expansion of receptive fields of spinal lamina I projection neurons in rats with unilateral adjuvant-induced inflammation: the contribution of dorsal horn mechanisms," <u>Pain</u> , 1989, 37:229-243
	AMMM	Kim and Chung, "An experimental model for peripheral neuropathy produced by segmental spinal nerve ligation in the rat," <u>Pain</u> , 1992, 50:355-363
	ANNN	Lam, "Application of combinatorial library methods in cancer research and drug discovery," <u>Anti-Cancer Drug Des.</u> , 1997, 12:145-167
	AOOO	Lam et al., "A new type of synthetic peptide library for identifying ligand-binding activity," <u>Nature</u> , 1991, 354:82-84
	APPP	Montell et al., "A Unified Nomenclature for the Superfamily of TRP Cation Channels," <u>Mol. Cell</u> , 2002, 9:229-231
	AQQQ	Nagamine et al., "Molecular Cloning of a Novel Putative Ca ²⁺ Channel Protein (TRPC7) Highly Expressed in Brain," <u>Genomics</u> , 1998, 54:124-131

Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 14848-010US1	Application No. 10/537,741
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.88(b))		Applicant Samuel J. Shuster et al.	
		Filing Date April 24, 2006	Group Art Unit 1635

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
	ARRR	Nielsen et al., "Sequence-Selective Recognition of DNA by Strand Displacement with a Thymine-Substituted Polyamide," <u>Science</u> , 1991, 254:1497-1500
	ASSS	Perraud et al., "ADP-ribose gating of the calcium-permeable LTRPC2 channel revealed by Nudix motif homology," <u>Nature</u> , 2001, 411:595-599
	ATTT	Ryazanov, "Elongation factor-2 kinase and its newly discovered relatives," <u>FEBS Lett.</u> , 2002, 514:26-29
	AUUU	Crooke and Lebleu (eds.), "C-5 Substituted Bases," <u>Antisense Research and Applications</u> , 1993, CRC Press, Boca Raton, FL, pp. 276-278
	AVVV	Sano et al., "Immunocyte Ca ²⁺ Influx System Mediated by LTRPC2," <u>Science</u> , 2001, 293:1327-1329
	AWWW	Scott and Smith, "Searching for Peptide Ligands with an Epitope Library," <u>Science</u> , 1990, 249:386-390
	AXXX	Vanderah et al., "Antisense oligodeoxynucleotide to the CCK _B receptor produces naltrindole- and [Leu ⁵]enkephalin antiserum-sensitive enhancement of morphine antinociception," <u>NeuroReport</u> , 1994, 5:2601-2605
	AYYY	Zuckermann et al., "Discovery of Nanomolar Ligands for 7-Transmembrane of G-Protein-Coupled Receptors from a Diverse N-(Substituted)glycine Peptoid Library," <u>J. Med Chem.</u> , 1994, 37:2678-2685

Examiner Signature /Kimberly Chong/	Date Considered 08/03/2008
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Disclosure Form (PTO-1449)

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /K.C./